

ANDREW GAO

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EDUCATION

Algonquin Regional High School

Senior Northborough, MA

Expected Graduation: Jun 2018

- GPA (weighted): **4.96/5.00**, Rank: **12/343**
- ACT: **35/36**, SAT: **1560/1600**, PSAT: **1490/1520**, SAT Subject Tests: Math 2 (**800/800**), Chemistry (**800/800**)
- APs: Chemistry (5), Computer Science A (5), English Language and Composition (5), U.S. History (4), World History (4)
- Awards: National Honor Society, Science National Honor Society, Mu Alpha Theta, RIT Computing Medal, University of Rochester Bausch & Lomb Award, St. Michael's Book Award, French Academic Excellence Award, National Merit Scholarship Semifinalist, AP Scholar with Distinction, Principal's List every semester

WORK EXPERIENCE

Worcester Polytechnic Institute Bioinformatics & Computational Biology

Worcester, MA

Android Application Developer

Jun 2017 – Present

- Rebuilt user interface for an Android application that collects data on locations of threatened bumblebees in New England
- Implemented changes to Android application using Java and XML in Android Studio

Self-Employed (Fiverr)

Southborough, MA

Freelance Graphics Designer

Oct 2014 – Present

- Designed custom social media graphics using GIMP for over 80 clients in 10 different countries
- Maintained a 5-star rating since inception and favorited by over 170 users

VOLUNTEER EXPERIENCE

Yingkou Thrombosis Hospital

Yingkou, Liaoning, China

Volunteer

Aug 2017

- Shadowed lead radiologist and technicians for 100+ hours in order to learn about ultrasound, X-rays, and CT scans
- Observed laparoscopic surgery of the uterus and surgical procedures during a visit to the Yingkou Central Hospital
- Helped run general hospital errands and set up rooms in the newly opened hospital

Selecta Biosciences

Watertown, MA

Selected Shadow Program Participant

Aug 2016

- Shadowed Head of Chemistry in the lab for a clinical-stage biopharmaceutical company, learning about lab procedures, pharmaceutical development, and drug delivery mechanisms
- Assisted in preparation of buffer solutions for protein conjugation

Algonquin Peer Tutoring

Northborough, MA

Tutor

Oct 2016 – Present

- Tutored fellow students in chemistry, geometry, precalculus after school for multiple hours each month

LEADERSHIP & ACTIVITIES

Algonquin Mu Alpha Theta, Mathematics Honor Society

Northborough, MA

Founding Member & Treasurer

Dec 2016 – Present

- Founded local Mu Alpha Theta chapter to promote and recognize mathematical scholarship in the school
- Managed collection of dues and organized fundraisers each semester

Algonquin Science Research Club

Northborough, MA

Founder & President

Sep 2016 – Present

- Designed and programmed Arduino boards in order to measure light levels on the roof of the school
- Created a kinetic mural dedicated to school's retiring principal, incorporating solar panels and 3-D printed parts

Algonquin Health Occupations Students of America (HOSA)

Northborough, MA

Senior Member & Project Committee Member

Sep 2015 – Present

- Awarded first place in the EMT event of the 2017 Massachusetts HOSA competition
- Planned school-wide events such as an American Heart Association fundraiser and an experiment about test-taking strategies

Algonquin FRC Team 1100 Robotics

Northborough, MA

Senior Member, Manipulator Subteam

Sep 2014 – Present

- Used Solidworks CAD and power tools to design and engineer various parts for precise object placement
- Volunteered at local events such as Applefest, Heritage Day, and FLL qualifiers for community outreach

Algonquin Math Team

Northborough, MA

Varsity Team A Member

Sep 2014 – Present

- Achieved highest score of all team upperclassmen, ranking top 30 in the Worcester County Math League for 2016-17
- Assisted in organizing practices and recruiting over ten new members

SKILLS & INTERESTS

Languages: Mandarin Chinese (Conversational), French (Basic)

Computers: GIMP, Java, XML, C++, HTML, CSS, Bash, Batch, Linux, Terminal, Blender VSE, Solidworks

Interests: Volleyball (Varsity setter and JV co-captain), Music (Piano and alto saxophone), Programming, Graphics, Drawing, Photography